NORTH DAKOTA
HAZARDOUS WASTE COMPLIANCE
GUIDE

North Dakota Department of Health
Division of Waste Management

2012
NORTH DAKOTA
HAZARDOUS WASTE COMPLIANCE
GUIDE

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North Dakota Department of Health
Division of Waste Management

2012
Sixteenth Edition
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Introduction

One of the by-products of our industrial society is waste, some of which is hazardous to human health or the environment. In response to public concern over the result of improper handling and disposal of chemical wastes, the U.S. Congress enacted the Resource Conservation and Recovery Act (RCRA) in 1976. In 1980, Congress passed the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). In November 1984, the Hazardous Waste and Solid Waste Amendments (HSWA) to RCRA were signed into law. CERCLA was amended by the Superfund Amendments and Reauthorization Act (SARA) in 1986.

Under these laws, the U.S. Environmental Protection Agency (EPA) was authorized to develop and oversee a nationwide program to regulate hazardous waste management. In 1981, the State of North Dakota enacted the Hazardous Waste Management Law under Chapter 23-20.3 of the North Dakota Century Code and under authority of this law promulgated the State Hazardous Waste Management Rules under Article 33-24 of the North Dakota Administrative Code. These regulations provide:

- A definition of hazardous waste, including lists of hazardous chemical wastes;
- Handling requirements for generators and transporters of hazardous waste;
- A manifest system to track hazardous waste from generation point to final disposal (“cradle to grave”);
- Permit requirements for facilities that treat, store, and/or dispose of hazardous waste; and,
- Requirements for State hazardous waste programs.

EPA delegated authority to many states to operate their own hazardous waste regulatory programs. To be authorized, individual State programs must be at least as stringent as the Federal program. After receiving authorization, State programs operate in place of the Federal program. North Dakota received final authorization to regulate hazardous waste management in 1984. The program is administered by the North Dakota Department of Health (the Department) Hazardous Waste Program (the Program).

In order to retain its authorization, the Program regularly updates its rules to incorporate changes made in the Federal regulations. As the Federal hazardous waste program is revised, there may be Federal regulations which have not yet been included in the North Dakota Hazardous Waste Management Rules. During this time generators, transporters, and treatment, storage, or disposal facilities must comply with the requirements of all applicable State rules and any Federal rules not yet incorporated.

Compliance with Federal, State, and local regulations can sometimes be costly. However, the environmental and financial consequences of noncompliance are much more expensive. Because these regulations are complex, the Program developed this guidebook to assist North Dakota’s generators of hazardous waste in complying with the North Dakota Hazardous Waste Management Rules.

Information on the North Dakota Hazardous Waste Program is available on our web site: www.ndhealth.gov/wm
Section One: Compliance in Ten Steps

The Program (like other states) developed a systematic approach to hazardous waste management called “Compliance in Ten Steps.” The ten steps are as follows:

1. IDENTIFY WASTE STREAMS AND GENERATOR STATUS
2. OBTAIN A STATE/EPA ID NUMBER
3. CONTAINERS, LABELS AND MARKINGS, AND PLACARDS
4. STORAGE AND ACCUMULATION
5. TRANSPORTATION AND DISPOSAL
6. MANIFESTS
7. EMERGENCY PLANNING AND RESPONSE
8. PERSONNEL TRAINING
9. REPORTING REQUIREMENTS
10. RECORDS

STEP 1. Identify Waste Streams and Generator Status.

North Dakota Hazardous Waste Management Rules require that “a person who generates a solid waste must determine if it is a hazardous waste.” This evaluation determines whether the waste is hazardous or nonhazardous.

Table 1, Typical Hazardous Wastes Generated by Small Businesses, will give you an idea of which waste streams may be hazardous.

A. Evaluate Waste Streams.

Listed below are three procedures to be used to evaluate a given waste:

First, determine if the waste is not regulated under Section 33-24-02-04 NDAC.

1. Exempt Wastes.

   a. Some wastes are exempted from regulation as hazardous waste. Examples of exempted waste include:

      - Household refuse
      - Irrigation return flows
      - Sewage
      - Mining overburden
      - Used oil (See Section Two, Topic 3
      - Fly and bottom ash
      - Scrap metal
      - Oilfield wastes
      - Nuclear materials
      - NDPDES-permitted discharges

   This is not a complete listing of the exemptions. Contact the Program for further information.
<table>
<thead>
<tr>
<th>Business Type</th>
<th>Generation Processes</th>
<th>Waste Types</th>
<th>Waste Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drycleaning and Laundry Facilities</td>
<td>Commercial dry cleaning processes</td>
<td>Still residues from solvent distillation, spent filter cartridges, cooked powder residues</td>
<td>D001, D039, F002</td>
</tr>
<tr>
<td>Construction</td>
<td>Painting prep and operations, carpentry and floor work, specialty contracting, heavy construction, wrecking and demolition, vehicle and equipment maintenance</td>
<td>Ignitable wastes, toxic wastes, solvent wastes, paint wastes, off-specification used oil, acids/bases</td>
<td>D001, D002, D003, F001-F005</td>
</tr>
<tr>
<td>Vehicle Maintenance</td>
<td>Degreasing, rust removal, painting prep and operations, spray booth, spray guns, brush cleaning, paint removal, tank cleanout, lead/acid batteries</td>
<td>Acids/bases, solvent wastes, ignitable wastes, toxic wastes, paint wastes, used batteries, off-specification used oil</td>
<td>D001, D002, D006, D007, D008, D018, F001-F005</td>
</tr>
<tr>
<td>Printing and Allied Industry</td>
<td>Plate prep, stencil prep for screen printing, photoprocessing, printing, cleaning</td>
<td>Acids/bases, heavy metal wastes, solvent wastes, toxic wastes, used ink</td>
<td>D002, D006, D007, D008, F001-F005</td>
</tr>
<tr>
<td>Equipment Repair</td>
<td>Degreasing, rust removal, painting prep and operations, spray booth, spray guns, brush cleaning, paint removal</td>
<td>Acids/bases, solvent wastes, ignitable wastes, toxic wastes, paint wastes, used batteries, off-specification used oil</td>
<td>D001, D002, D006, D007, D008, D018, F001-F005</td>
</tr>
<tr>
<td>Educational and Vocational Shops</td>
<td>Auto engine and body repair, metalworking, graphic arts-plate prep, woodworking</td>
<td>Ignitable wastes, solvent wastes, acids/bases, paint wastes</td>
<td>D001, D002, F001-F005</td>
</tr>
</tbody>
</table>
b. Empty containers and liners used to hold a hazardous waste (except a compressed gas or acutely hazardous (P) waste) are exempt if all the removable products or wastes have been removed from the container using common practices (i.e. pumping or pouring) and one of the following conditions is met:

- No more than one inch of residue remains on the bottom;
- No more than 3 percent by weight of the waste remains inside of a container having a total capacity of 110 gallons or less; or
- No more than three tenths of 1 percent by weight of the waste remains inside of a container having a total capacity greater than 110 gallons.

If a container held compressed gas, it is considered empty when internal pressure approaches atmospheric pressure.

If a container held an acutely hazardous (P) waste, contact the Program for more information.

Second, determine if the waste is a listed hazardous waste in Sections 33-24-02-15, 33-24-02-16, or 33-24-02-17, or 33-24-02-18 NDAC, which references the non-specific source (F), specific source (K), and commercial chemical product wastes (P and U).

2. Listed Hazardous Wastes.

Wastes listed in the North Dakota Hazardous Waste Management Rules are included because they meet one or more of the following criteria: the waste exhibits any of the characteristics (ignitability, corrosivity, reactivity, or toxicity), the waste has been found to be fatal to humans in low doses or significantly contributing to an increase in illness, or the waste contains any toxic constituent that if the waste is improperly managed is capable of posing a hazard to human health or the environment.

Listed hazardous wastes are split into the following three categories:

a. Non-specific sources (F wastes).

Wastes that are generated but are not distinct to any certain manufacturing process are listed as F wastes. Examples are:

- Waste solvents and distillation bottoms from solvent recovery;
- Electroplating wastes (e.g., sludges, bath solutions, etc); and,
- Other non-specific sources.

b. Specific sources (K wastes).

Wastes produced during the manufacturing process are listed as K wastes, such as from the manufacture of:

- Pesticides
- Inorganic chemicals
- Explosives
- Wood preservatives
- Inks and inorganic pigments
- Petroleum refining
- Organic chemicals
- Iron and steel

c. Discarded products, off-spec products, spill residues, and acute hazardous waste (P or U wastes).

Wastes such as commercial chemical products, manufacturing chemical intermediates, off-specification commercial chemical products or manufacturing chemical intermediates, mixtures of the chemicals listed and spill residues may be classified as P- or U-listed wastes.

Some listed hazardous wastes are subject to additional regulation as “acute hazardous waste.” If you suspect that you have or generate an acute hazardous waste, contact the Program to confirm if the waste is acute and to discuss additional management procedures.
Third, for the purposes of compliance, the generator must determine whether the waste is identified as a characteristic hazardous waste (D) in Sections 33-24-02-10 through 33-24-02-14 NDAC by:

- Testing the waste in accordance with the methods in Chapter 33-24-02 NDAC, or by other Department approved equivalent methods; or

- Applying knowledge of the hazardous characteristic of the waste in light of the materials or processes used.

3. Characteristic Hazardous Wastes (D wastes).

There are four categories of characteristic hazardous waste.

a. **Ignitability.** A liquid waste is considered ignitable if it has a flashpoint of 140°F or less. Gases are considered to be ignitable if classified as ignitable compressed gases or oxidizers. A solid is ignitable if it can spontaneously catch fire and burns so vigorously that it creates a hazard. Many solvents are ignitable. Ignitable hazardous wastes have the waste code D001.

b. **Corrosivity.** Any aqueous (water-based) waste having a pH of less than or equal to 2.0 or greater than or equal to 12.5 is considered corrosive. A liquid able to corrode steel at a rate of ¼ inch per year is also corrosive. Strong acids and bases are examples of corrosive materials. Corrosive hazardous wastes have the waste code D002.

c. **Reactivity.** Wastes that are unstable or explosive, that react violently with water or air, that form potentially explosive mixtures with water or air, and that can release toxic gases (such as hydrogen cyanide or hydrogen sulfide) are considered reactive. Reactive hazardous wastes have the waste code D003.

d. **Toxicity characteristic.** A waste exhibits the characteristic of toxicity if, using the toxicity characteristic leaching procedure (TCLP), the waste or an extract of the waste contains any contaminants at concentrations equal to or greater than those listed in Table 2. The Program maintains a list of laboratories that perform TCLP testing and is available on our web site.

Some waste streams that may exhibit a toxicity characteristic include:

- Paints
- Greases
- Sludges
- Pesticides
- Inks
- Adhesives
- Solvents
- Metals

If you generate any listed or characteristic wastes as described in parts 2 and 3, you are a **generator of hazardous waste.** You must manage that waste in accordance with the North Dakota Hazardous Waste Management Rules. If you are uncertain about your waste determination, contact the Program.

4. Other Regulated Wastes.

a. Asbestos abatement generates two regulated wastes: the asbestos contaminated materials and airborne particulate materials. For more information regarding asbestos removal or disposal contact the Division of Air Quality.

b. Radioactive wastes are not regulated by the North Dakota Hazardous Waste Management Rules. These wastes are regulated under Article 33-10 NDAC, Radiological Health Rules. For disposal methods of radioactive wastes, please contact the Division of Air Quality.
TABLE 2
HAZARDOUS CONTAMINANT LEVELS FOR TOXICITY CHARACTERISTIC

<table>
<thead>
<tr>
<th>EPA HW #</th>
<th>Contaminant</th>
<th>Regulatory Level (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D004</td>
<td>Arsenic</td>
<td>5.0</td>
</tr>
<tr>
<td>D005</td>
<td>Barium</td>
<td>100.0</td>
</tr>
<tr>
<td>D018</td>
<td>Benzene</td>
<td>0.5</td>
</tr>
<tr>
<td>D006</td>
<td>Cadmium</td>
<td>1.0</td>
</tr>
<tr>
<td>D019</td>
<td>Carbon Tetrachloride</td>
<td>0.5</td>
</tr>
<tr>
<td>D020</td>
<td>Chlordane</td>
<td>0.03</td>
</tr>
<tr>
<td>D021</td>
<td>Chlorobenzene</td>
<td>100.0</td>
</tr>
<tr>
<td>D022</td>
<td>Chloroform</td>
<td>6.0</td>
</tr>
<tr>
<td>D007</td>
<td>Chromium</td>
<td>5.0</td>
</tr>
<tr>
<td>D023</td>
<td>o-Cresol</td>
<td>200.0*</td>
</tr>
<tr>
<td>D024</td>
<td>m-Cresol</td>
<td>200.0*</td>
</tr>
<tr>
<td>D025</td>
<td>p-Cresol</td>
<td>200.0*</td>
</tr>
<tr>
<td>D026</td>
<td>Cresol</td>
<td>200.0*</td>
</tr>
<tr>
<td>D016</td>
<td>2,4-D</td>
<td>10.0</td>
</tr>
<tr>
<td>D027</td>
<td>1,4-Dichlorobenzene</td>
<td>7.5</td>
</tr>
<tr>
<td>D028</td>
<td>1,2-Dichloroethane</td>
<td>0.5</td>
</tr>
<tr>
<td>D029</td>
<td>1,1-Dichloroethylene</td>
<td>0.7</td>
</tr>
<tr>
<td>D030</td>
<td>2,4-Dinitrotoluene</td>
<td>0.13b</td>
</tr>
<tr>
<td>D012</td>
<td>Endrin</td>
<td>0.02</td>
</tr>
<tr>
<td>D031</td>
<td>Heptachlor (&amp; its epoxide)</td>
<td>0.008</td>
</tr>
<tr>
<td>D032</td>
<td>Hexachlorobenzene</td>
<td>0.13b</td>
</tr>
<tr>
<td>D033</td>
<td>Hexachlorobutadiene</td>
<td>0.5</td>
</tr>
<tr>
<td>D034</td>
<td>Hexachloroethane</td>
<td>3.0</td>
</tr>
<tr>
<td>D008</td>
<td>Lead</td>
<td>5.0</td>
</tr>
<tr>
<td>D013</td>
<td>Lindane</td>
<td>0.4</td>
</tr>
<tr>
<td>D009</td>
<td>Mercury</td>
<td>0.2</td>
</tr>
<tr>
<td>D014</td>
<td>Methoxychlor</td>
<td>10.0</td>
</tr>
<tr>
<td>D035</td>
<td>Methyl Ethyl Ketone</td>
<td>200.0</td>
</tr>
<tr>
<td>D036</td>
<td>Nitrobenzene</td>
<td>2.0</td>
</tr>
<tr>
<td>D037</td>
<td>Pentachlorophenol</td>
<td>100.0</td>
</tr>
<tr>
<td>D038</td>
<td>Pyridine</td>
<td>5.0*</td>
</tr>
<tr>
<td>D010</td>
<td>Selenium</td>
<td>1.0</td>
</tr>
<tr>
<td>D011</td>
<td>Silver</td>
<td>5.0</td>
</tr>
<tr>
<td>D039</td>
<td>Tetrachloroethylene</td>
<td>0.7</td>
</tr>
<tr>
<td>D015</td>
<td>Toxaphene</td>
<td>0.5</td>
</tr>
<tr>
<td>D040</td>
<td>Trichloroethylene</td>
<td>0.5</td>
</tr>
<tr>
<td>D041</td>
<td>2,4,5-Trichlorophenol</td>
<td>400.0</td>
</tr>
<tr>
<td>D042</td>
<td>2,4,6-Trichlorophenol</td>
<td>2.0</td>
</tr>
<tr>
<td>D017</td>
<td>2,4,5-TP (Silvex)</td>
<td>1.0</td>
</tr>
<tr>
<td>D043</td>
<td>Vinyl Chloride</td>
<td>0.2</td>
</tr>
</tbody>
</table>

*a* If o-, m-, and p-cresol cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.

*b* Quantification limit is greater than the calculated regulatory level. The quantification limit therefore becomes the regulatory level.
c. Wastes containing polychlorinated biphenyls (PCBs) are not regulated under the North Dakota Hazardous Waste Management Rules, but are regulated under 40 CFR 761 (TSCA), CERCLA (Superfund) and the Clean Water Act (CWA). Under Section 33-24-02-04.7 NDAC, PCBs should not be included in hazardous waste biennial reporting. If you suspect you have PCBs, contact the Program for proper management and disposal procedures. Additional information about PCBs is contained in Section 2, Topic 7.

d. Many chlorofluorocarbons (CFCs) are not regulated under the Hazardous Waste Management Rules but are regulated under the Air Pollution Control Rules. However, some CFCs are regulated under both. Many CFCs may not be released to the atmosphere because of the impacts CFCs have on the ozone. An example of an ozone-depleting CFC is Freon 12, a refrigerant normally found in refrigerators and automobile air conditioners. Questions regarding the disposal of CFCs may be addressed to either the Program or the Division of Air Quality.

B. Calculating Generator Status.

The level of regulation which a generator must follow is determined by the amount of hazardous waste generated. The generator status is based on the total amount of all hazardous wastes generated during the month. Be careful to add pounds to pounds and kilograms to kilograms. If your waste production changes seasonally, your generator status may change. It is recommended that you manage your hazardous waste based on your routine highest monthly generation status.

Tables 3 and 4 describe the three categories of generators and which hazardous wastes must be counted in order to determine your generator status.
### Table 3 – Categories of Generator Status

<table>
<thead>
<tr>
<th>Category</th>
<th>Monthly Quantity</th>
<th>Monthly Waste Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditionally Exempt Small Quantity Generator</td>
<td>≤ 220 pounds (100 kg) per month</td>
<td>Approximately ½ drum</td>
</tr>
<tr>
<td>Small Quantity Generator</td>
<td>≥ 220 pounds (100 kg) to ≤ 2200 pounds (1000 kg) per month</td>
<td>Approximately ½ to 5 drums</td>
</tr>
<tr>
<td>Large Quantity Generator</td>
<td>≥ 2200 pounds (1000 kg) per month</td>
<td>More than 5 drums</td>
</tr>
</tbody>
</table>

### Table 4 – Countable/Noncountable Wastes

<table>
<thead>
<tr>
<th>Countable wastes. A generator must count all LISTED and CHARACTERISTIC wastes as previously defined that:</th>
<th>Noncountable waste. A generator does not have to count wastes that:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Accumulates on-site for any period of time prior to subsequent management.</td>
<td>- Are specifically exempted from counting.</td>
</tr>
<tr>
<td>- Are packaged and then transported off-site.</td>
<td>- Are left as residue in conventionally emptied containers or in the bottom of product storage tanks.</td>
</tr>
<tr>
<td>- Are placed directly in a regulated on-site treatment or disposal unit.</td>
<td>- Are reclaimed continuously without storing prior to being reclaimed.</td>
</tr>
<tr>
<td>- Are generated as still bottoms or sludges and removed from product storage containers or tanks.</td>
<td>- Are managed in an elementary neutralization unit, totally enclosed treatment unit, or a wastewater treatment unit.</td>
</tr>
<tr>
<td>- Are placed into satellite accumulation containers.</td>
<td>- Are discharged directly to a POTW without being stored or accumulated first.</td>
</tr>
<tr>
<td>- Are universal wastes which are managed as hazardous wastes.</td>
<td>- Are already counted once in a calendar month, treated on-site or reclaimed, and reused.</td>
</tr>
<tr>
<td></td>
<td>- Are managed as universal wastes.</td>
</tr>
</tbody>
</table>
The next nine steps outline requirements hazardous waste generators must follow to be in compliance with the North Dakota Hazardous Waste Management Rules. Generators may use Table 5 below to see what requirements they may have. The Program advises all generators to be aware of the applicable regulations, and to read each step of this guide closely.

**Table 5 - Quick Reference**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>CESGQ</th>
<th>SQG</th>
<th>LQG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous waste determination</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>State/EPA ID number</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Storage quantity and/or time limits</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Storage standards</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Acceptable facilities for off-site management of wastes specified</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Manifest</td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Biennial Report</td>
<td>*</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Training, contingency plan and emergency procedures</td>
<td>**</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DOT requirements</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Land disposal restrictions</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Universal waste requirements</td>
<td>***</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Used Oil Requirements</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

* CESQGs are not required to complete biennial reports, however, the Program occasionally sends out reporting forms to CESQGs in order to maintain our database.

** Although CESQGs are not required by the North Dakota Hazardous Waste Management Rules to train their employees and have a contingency plan, it is in their best interests to discuss these issues with their employees.

*** CESQGs have the option of managing their universal wastes as either a universal waste or as a hazardous waste. The Program cautions those CESQGs who manage these wastes as hazardous waste to ensure that they still meet the exemption criteria of less than 220 pounds per month of total hazardous wastes generated.
STEP 2. Obtain a State/EPA ID Number.

Businesses that generate hazardous wastes in regulated quantities (220 pounds per month or more) are required to obtain a site identification number. State/EPA ID numbers are site (physical location) specific and are used to identify the facility on manifests, reports, container labels, and other required documents. You may obtain a State/EPA ID number by filing a Notification of RCRA Subtitle C Activity, EPA Form 8700-12. The form is available on our web site.

A. How to Complete the Form.

If you are a SQG or a LQG, you must obtain a State/EPA ID number. Many TSDFs require that CESQGs also have a State/EPA ID number. The notification form and instructions are available on the Program's webpage. The information requirements for form completion include the mailing and location address, facility contact, ownership information, and a description of the regulated activity.

If further assistance is needed, contact the Program. When completed, mail the form to:

North Dakota Department of Health
Division of Waste Management
2301 8th Avenue N
Fargo, ND 58102

B. Renotification.

The responsibility of renotification lies with the generator. The Program suggests that a generator renotify when the company name or ownership changes. Since a State/EPA ID number is site-specific, it will not change for that location. An EPA Form 8700-12 should be filed with the Program showing the changes.

If a company relocates or starts a branch at another location, the Program must be notified of the relocation or new location if this location generates regulated quantities (220 pounds per month or more) hazardous waste. An EPA Form 8700-12 will need to be completed and filed with the Program, and a State/EPA ID number issued for the new location.

If your generator status changes, the Program only requires renotification if the facility generator status increases. If generator status decreases, it may be in the best interests of the facility to renotify.

C. Multiple State/EPA ID Numbers.

Large companies may be composed of several separate buildings. If these buildings are on contiguous property (not divided by public roads or other property), then the facility may use a single State/EPA ID number. If a company operates several sites which are not on common property, then separate State/EPA ID numbers may be required for each site depending on generator status.


A. Containers.

Hazardous waste must be stored safely in appropriate containers. The type of container to be used depends on the type of waste to be stored. If you are uncertain of what container to use, contact the TSDF, the Department of Transportation, or the Program for recommendations.

Requirements for hazardous waste containers include:

- Containers must be made of sturdy, leak-proof materials and must meet DOT specifications for materials and construction. Typically, DOT 1A1 and 1A2 drums are used for hazardous liquid wastes and hazardous solid wastes.
- The container must be made of, or lined with, materials which will not react with
the hazardous waste stored inside. For example, use a plastic container for corrosive wastes, since corrosives will react with steel.

- All containers holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

B. Container Labels and Markings.

**It is the generator's responsibility to ensure that all containers are correctly labeled.**

There are separate requirements for container labels and markings for storage and for transportation.

Using commercial preprinted hazardous waste labels is one way to meet most requirements for container labeling. When using a preprinted label, some suggestions for filling them out are:

- Complete as much information as possible before attaching to the container;
- Use an all-purpose, indelible felt-tip pen for marking on the label;
- Protect the label from spills by placing the label away from the bung or covering the label with clear plastic tape; and,
- Keep a photocopy of a properly filled out label for each hazardous waste stream generated for reference.

1. Marking for Storage.
   - Mark with the words “Hazardous Waste.”


   49 CFR Part 172 dictates how to properly mark and label containers for transportation. Each hazardous waste container must be labeled and clearly marked with the following information:

   - Proper shipping name and UN/NA number (found in 49 CFR 172.101).
   - Generator name and address.
   - Manifest document number.
   - Hazardous Waste Warning. This warning states, “Hazardous Waste Federal Law Prohibits Improper Disposal. If found, contact the nearest police, public safety authority, or the U.S. EPA.”
   - Hazard labels. Hazard labels are 4” by 4” labels stating information such as FLAMMABLE, CORROSIVE, or OXIDIZER.

C. Placards.

Placards are large labels that are placed on transport vehicles. It is the generator’s responsibility to provide the transporter with correct placards. However, most transporters carry an assortment of vehicle placards. The placarding information can also be found in 49 CFR Part 172.
STEP 4. Storage and Accumulation.

Once a waste is generated at a facility it must be safely accumulated and properly stored. Storage and accumulation of waste are a primary concern. Proper accumulation and storage of hazardous waste ensures that the wastes are not mismanaged or accidentally or intentionally disposed. All generators are required to properly manage and handle storage containers to ensure that there are no leaks to the environment.

All storage containers must be properly identified, as stated in Step 3. Employees must be familiar with proper waste management of the wastes they generate, and should know what to do when the container is full.

A. General Storage Requirements.

1. A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.

2. Containers, whether in storage or satellite accumulation, must be properly marked and labeled. See Steps 3 and 4.E for label and marking requirements.

3. Containers must not be stored or handled in any manner that may cause them to rupture, leak, corrode, or otherwise fail.

4. The storage area must maintain sufficient aisle space to allow unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the facility operation in an emergency.

5. SQGs and LQGs that have containers of hazardous waste in storage must inspect those containers weekly, and an inspection log must be kept. The containers must be visually inspected for leaks, structural integrity, container deterioration, and deterioration of the containment system. An example of a container inspection log is located in the back of this guidebook.

6. Incompatible wastes, or incompatible wastes and materials must not be placed in the same container. Hazardous waste must not be placed in an unwashed container that previously held an incompatible waste. Storage of incompatible wastes must be separated by dikes, berms, walls, or other devices.

7. Ignitable and/or reactive wastes generated by LQGs must be stored at least 50 feet away from the facility property line. The Program recommends that all facilities store ignitable and/or reactive wastes at least 50 feet from property lines, if possible.

8. Wastes may only be stored on-site in limited quantities for a limited time dependent on your generator status. Table 6 illustrates time and accumulation limits for each generator status.

9. Different regulations apply if you store your hazardous waste in tanks. Contact the Program for information and regulatory requirements.

B. Containment Standards.

1. A container storage area must be designed and operated in accordance with the following items:

   ♦ The underlying base must be free of cracks and gaps, and be sufficiently impervious to contain leaks, spills, and accumulated precipitation.

   ♦ The base must be sloped or designed and operated to drain and remove leaks, spills, and precipitation to a collection system unless the containers are elevated or are otherwise protected from contact with accumulated liquids.

   ♦ The containment system must be designed to have a capacity of 10 percent of the total volume of containers or the
total volume of the largest container stored within that system, whichever is greater.

♦ The system must be designed to prevent run-on.

♦ Accumulated material must be removed from the collection system in a timely manner to prevent overflow.

2. Storage areas holding containers with no free liquids are not required to have secondary containment systems provided that (1) the storage area is sloped or otherwise designed and operated to remove precipitation; or (2) the containers are elevated or otherwise protected from contact with accumulated liquid.

C. Storage: Quantity and Time Limits.

The quantities of wastes that may be accumulated on-site by generators varies with the generator status and the distance to the TSDF facility. Table 6 gives a brief explanation of the quantity and time limits.

D. Storage Time Limit Extensions.

If your hazardous waste cannot be shipped off-site within the specified time limit, you may request a storage time extension. If you need to request an extension, the request must be in writing, addressed to the Division of Waste Management, Hazardous Waste Program.

The letter must explain why the extension is needed, detail the types and quantity of waste the extension is requested for, and describe the anticipated schedule for shipping of the waste. The extension's approval is based on the adequacy of the reasons presented in the extension request. Obtaining the extension is very important. Companies storing wastes in excess of the time and accumulation limits are operating an unpermitted storage facility, and as such are subject to enforcement actions.

E. Satellite Accumulation.

Many generators produce one or more waste streams which accumulate very slowly. In these cases, compliance with the 90-day or 180-day accumulation storage time may be economically difficult, since the containers may not be full when the time limit is up. The Program allows for longer accumulation times under what is called "satellite accumulation."

Containers used in satellite accumulation of hazardous waste must meet the following criteria to qualify as satellite accumulation points:

1. The container is stored at or near the point of generation where the wastes initially accumulate and is under the control of the operator of the process generating the waste;

2. No more than 55 gallons of hazardous waste or one quart of acutely hazardous waste per waste stream may be accumulated at the site;

3. The container is marked with the words "Hazardous Waste" or other words that identify the contents of the container;

4. The container is in good condition and is compatible with the accumulated waste;

5. The container is kept closed, except when it is necessary to add or remove waste; and,

6. Once full the drum must be immediately moved to a storage area; and

7. An accumulation start date must be clearly marked on the container when it is full and placed in storage.

A generator may have more than one satellite accumulation site throughout the facility if hazardous waste is generated from more than one process. A satellite accumulation point may contain more than one 55-gallon waste container if distinct waste streams are being separately accumulated.
<table>
<thead>
<tr>
<th>Generator Category</th>
<th>Storage Limit</th>
<th>Shipping Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>CESQG</td>
<td>1000 kg (2200 lbs); if exceeded, generator is regulated at next higher category.</td>
<td>Less than 1000 kg may be stored indefinitely. Once 1000 kg is accumulated, the waste must be shipped off-site within 180 days, or 270 days if TSDF is located more than 200 miles distant.</td>
</tr>
<tr>
<td>SQG</td>
<td>6000 kg (13200 lbs); if exceeded, generator is operating an unpermitted storage facility.</td>
<td>All accumulated wastes must be shipped off-site within 180 days of the storage date, or 270 days if the TSDF is located more than 200 miles distant.</td>
</tr>
<tr>
<td>LQG</td>
<td>No limit.</td>
<td>All accumulate wastes must be shipped within 90 days of the storage date.</td>
</tr>
</tbody>
</table>

**STEP 5. Transportation and Disposal.**

The generator has a “cradle to grave” responsibility for their hazardous waste, and this includes during transportation and after disposal. Selecting a hazardous waste transporter and treatment, storage, disposal or recycling facility is an important aspect of your waste management program.

Hazardous waste regulations dictate that a generator may not offer their hazardous waste for transport to a transporter who does not have a State/EPA identification number and a current North Dakota Solid Waste Transporter Permit. Though self-transportation is not prohibited, it demands careful consideration.

Many treatment, storage, disposal or recycling facilities (TSDF) offer a full management program where the TSDF prepares a manifest and contracts the transportation. The generator must still review the manifest and ensure that the transporter is properly permitted to operate in North Dakota.

A. Selecting a Transporter.

1. Assess your needs. To assist in choosing a transporter, the Program has compiled a list of hazardous waste haulers and is available on our web site. The list should only be a starting point. By providing the list, the Program does not suggest or imply that any listed transporters are reputable or are in compliance with applicable State and Federal laws. Before contacting a transporter, consider:

   - Wastes. Inventory the types and amounts of wastes generated. Note whether they are solid, liquid, or sludge;
Containers. Check the size, type, and condition. If a container appears to be in poor condition, a transporter may want you to repackage the waste; and,

Frequency of shipments. Check the frequency you need to have your waste removed. The location of your chosen TSDF may allow you more storage time.

2. Narrow the selection. Ask these questions:

- Can the transporter take the quantity of waste I generate to my chosen TSDF as often as I need it done?
- What costs are involved?
- Does the transporter charge layover time?
- How long has the transporter handled hazardous wastes?
- Which parts of the manifesting process will the transporter handle? Remember, as a generator, you are ultimately responsible for an accurately filled out manifest;
- Does the transporter have local customers? Contact them to find out what kind of job the transporter is doing;

and,

- Contact local trade associations, the Better Business Bureau, and the Chamber of Commerce. See if anyone has registered a complaint against the hauler.

3. Research the transporter. To lessen the chance of waste mismanagement, you want to hire a reputable and responsible transporter who has a working knowledge of the rules. You may ask your potential transporter these questions:

a. What permits or licenses does the transporter have or need?

- **ALL** transporters must have a State/EPA ID number.

- Transporters who pickup from or deliver waste to facilities located in North Dakota must have a current North Dakota Solid Waste Transporters Permit.

b. Are the transporter’s drivers qualified according to the Federal Motor Carrier Safety Act (FMCSA)?

c. Are drivers trained for safe hazardous waste handling?

- Emergency response procedures?
- Written contingency plan?
- Do they carry a copy of the Emergency Response Guidebook?
- Do they know proper DOT shipping names, UN/NA numbers, hazard classes, shipping numbers, etc.?
- Do they know how to properly mark and label containers of hazardous waste?
- Are they familiar with proper loading procedures, including:

  * Hazardous waste loading charts;
  * Segregate incompatible wastes;
  * Follow bulk loading procedures; and,
  * Inspect each individual container as it is loaded.
- Do they correctly placard the transportation vehicle?
- Do they pre-inspect emergency equipment prior to each trip (fire extinguisher, road flares, reflective triangles)?
- Are they trained in manifesting, including:
  * Knowing which manifest to use;
  * Familiar with filling a manifest out; and,
  * Getting correct State/EPA ID numbers.

B. Select a Treatment, Storage, and Disposal Facility.

Because the **generator is ultimately responsible**, selecting a TSDF is another important part of your waste management program. Proper management of wastes will protect your company from liability for environmental damages resulting from mismanagement.

![Image of a facility](image)

Ideally, a company representative visiting the TSDF is the best way to assess how your waste will be managed. It is not always possible to do this. Contacting the regulatory agency in the state where the TSDF is located is one way to check on a TSDF's current regulatory status. Here is some guidance on choosing a TSDF.

Ask the TSDF representative:

- Is the facility the final TSDF or a broker? If a broker, ask who is the final facility and how will the final facility treat, store, or dispose of the waste?
- Who are some of the facilities local customers? Check with them on the facilities reputation.
- How will waste be transported to the facility, does the facility have their own vehicles or use a common/contract carrier?
- Can the facility handle your wastes?
- Is there a minimum shipment or minimum shipment charge?
- Is a sample required? If so, what fee is assessed for this sample? If your waste has already been analyzed, is that analysis acceptable? Can waste streams be mixed to reduce costs?
- How long will it take to complete arrangements for a shipment?

Contact the environmental officials in the state where the TSDF is located. Ask the official who inspects that facility:

- Is the facility currently in compliance with State and Federal regulations? If not, ask what ways are they not in compliance.
- Is the facility under orders to correct some past deficiencies or violations?
- Has the facility been fined in the past?
- How often is the facility inspected?
- Is the facility listed on the Superfund cleanup list?
Before arranging to ship hazardous waste to your chosen TSDF:

- Ask for a copy of their certificate of insurance.
- Obtain a contract with the facility for their services. **Know where your waste is going, how it is managed, and the disposition of residues, ash, and empty containers.** Scrutinize the contract for hidden costs, such as per diem charges, safety equipment, miscellaneous testing, extra materials, etc.

C. Disposal of CESQG Wastes.

Many conditionally exempt small quantity generators dispose of their hazardous wastes at a permitted TSDF and ship wastes using permitted hazardous waste transporter. However, a CESQG may transport their hazardous waste off-site to a permitted hazardous waste treatment, storage, disposal facility; a permitted municipal waste landfill; or an industrial waste landfill, contingent upon approval by the local landfill authority. Many permitted municipal waste and industrial waste landfills are no longer accepting these hazardous wastes or are refusing to accept conditionally exempt quantities of hazardous waste.

D. Household Hazardous Waste Collection Programs.

Household hazardous wastes are excluded from the hazardous waste regulations. However, your community may offer a Household Hazardous Waste (HHW) collection program to dispose of household hazardous waste. These programs can be sponsored by a business or group of businesses, the city or county. Costs for these programs are sometimes deferred, but this is not always the case. Many programs are specific as to the type, form, and quantity of waste accepted, disposal charges, pre-registration requirements, operation times, etc.

Some of these sponsored activities include exchanges of household waste paints, solvents, certain pesticides, cleaning and automotive products, and other materials. Contact the city, Chamber of Commerce, county, or the Department for information concerning these programs.

**STEP 6. Manifests.**

A manifest is a multi-copy form used for shipping hazardous waste off-site. This form details information concerning the generator, transporter, TSDF, and the amount and type of waste. It may also be used to ship nonhazardous waste.

A. Why Are Manifests Required.

Generators of hazardous waste are considered forever responsible (and liable) for the proper handling and disposal of their waste. They are responsible from the time the waste is generated, “the cradle,” to the time it is delivered to the final treatment, storage, or disposal site, “the grave.” The manifest is a way to track hazardous waste after it leaves the generation site. This tracking provides protection from mismanagement.

In North Dakota, a “generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage, or disposal must prepare a uniform hazardous waste manifest” before transporting the waste off-site. This means **the generator is responsible for the proper completion of the manifest.**

B. Manifest.

Generators must use the Uniform Hazardous Waste Manifest, EPA Form 8700-22. Instructions for completing the manifest are found in Appendix I of Chapter 33-24-03 NDAC which is located on our web site. Each section is labeled with the information required for completing that section. Be careful to:

Type or firmly print all required information.
You are making at least six copies.

- Enter accurate information for the generator, transporter, and destination facility.
- Enter the appropriate DOT shipping name(s), hazard class, ID number and packing group.
- Enter correct quantities, weights and waste codes.
- Enter a telephone number for emergency 24-hour contact. Many facilities have registered with CHEMTREC as a 24-hour emergency contact, non-emergency telephone number (800) 262-8200.

C. Distribution of Manifest Copies.

By rule, only LQGs are required to send manifest copies to the Program. Other generators may also submit manifest copies to the Program. When using the Federal manifest, you must:

- Give copies 1-4 to the transporter;
- Retain copy 5 in your records for a minimum of three years;
- If you are an LQG, within 21 days of shipment send a legible copy of the manifest to the Program; and,
- If you are an LQG, within 21 days of receipt send a legible copy of the returned, facility signed manifest to the Program.

D. Exception Reports.

Small quantity generators that do not receive a copy of the designated facility-signed manifest within 60 days of shipment are required to submit to the Program a legible of the manifest and indicate that the generator has not received confirmation of delivery.

If a large quantity generator does not receive a copy of the manifest back from the TSDF within 35 days of shipment, they must contact the transporter, the TSDF, or both, to check on the status of the hazardous waste. If they still do not receive a copy of the manifest within 45 days of shipment, the large quantity generator is required to notify the Program in writing within 60 days of shipment that they have not received a copy of the manifest. This letter must include a legible copy of the manifest for which the generator does not have confirmation of delivery and should state the steps taken to resolve the situation.

E. Land Disposal Restrictions.

The North Dakota Hazardous Waste Management Rules Sections 33-24-05-250 through 33-24-05-300 NDAC pertain to land disposal restrictions. Land disposal is the placement of waste in or on the land and uncontrolled land disposal of hazardous waste can threaten human health and the environment. Regulating land disposal is one of the most important strategies used by EPA and the Department to protect groundwater.

The Land Disposal Restrictions (LDR) provide a second measure of protection from threats posed by hazardous waste disposal. The LDR regulations ensure that hazardous waste cannot be placed on the land until the waste meets specific treatment standards to reduce the mobility or toxicity of the hazardous constituents in the waste.

Generators must determine if their waste is subject to LDR at the point of generation. If the waste is subject to LDR and does not meet applicable treatment standards, the generator must prepare a one-time notice to accompany the initial waste shipment. A new notice is only required if any changes were made to the process which generates the waste, the character or composition of the waste, or the receiving facility. Copies of the LDRs must be retained in your files for at least three years from the date the
If the waste meets the applicable treatment standards, then the generator must send a one-time notification and certification statement with the initial waste shipment. The notification and certification statements must be retained for three years from the date the waste was sent to the treatment, storage or disposal facility with the notification.

Dilution of a restricted hazardous waste is prohibited as a substitute for adequate treatment to achieve compliance. Dilution of characteristic hazardous wastes in a treatment system which discharges to waters of the United States is also prohibited.

**STEP 7. Emergency Planning and Response.**

Generators of hazardous waste must carefully manage their wastes in order to minimize the risk of an accident and complete emergency planning requirements which describe what to do in response to an emergency. Emergency planning requirements are based on your generator status and may be similar to what other laws require.

A. CESQG Requirements.

CESQGs are not required by the North Dakota Hazardous Waste Management Rules to have any contingency planning. Such planning may be required by the city or county, or by insurance carriers. Some parts of contingency planning are common safety practices. If a CESQG becomes a SQG during the year, contingency planning is required.

B. SQG Requirements.

SQGs are required to:

1. Designate at least one employee either on-site or on call at all times to act as emergency coordinator.

2. Post the following information next to the telephone (an example of what needs to be posted is located in the back of this guide book):
   - Name and phone number of the emergency coordinator(s).
   - Location of fire extinguishers, spill control equipment, and, if present, fire alarm.
   - Telephone number of the fire department, unless the facility has a direct alarm.

3. Ensure all employees are familiar with proper hazardous waste handling procedures, relevant to their responsibilities.

4. Designate responses the emergency coordinator(s) need to fulfill in case of emergency. Such responses are:
   - In the event of a fire, call the fire department or attempt to extinguish the fire with a fire extinguisher.
   - In the event of a spill, stop the spill, contain the flow, and as soon as practicable, cleanup the spilled material and contaminated debris.
   - In the event of a fire, explosion, or other release which may threaten human health outside the facility, or when the generator has knowledge that a spill has reached surface water, the emergency coordinator will notify the national response center at 1-800-424-8802. The report must include the following:
     - The name, address, and State/EPA ID number of the facility;
     - Date, time, and type of occurrence (e.g., spill or fire);
Quantity and type of hazardous waste involved;

Extent of injuries, if any; and,

Estimated quantity and disposition of recovered materials, if any.

C. LQG Requirements.

LQG requirements include all SQG requirements plus a required written contingency plan. The contingency plan must include the following:

1. A description of actions (emergency procedures) facility personnel must take to respond to fires, explosions, or any unplanned sudden or nonsudden release of hazardous waste to air, soil, or surface water;

2. A description of arrangements with local police departments, fire departments, hospitals, contractors, and state and local emergency response teams to coordinate emergency services;

3. A list naming all qualified personnel who can act as emergency coordinator, including their priority of assumption, work and home telephone numbers, and addresses;

4. A list of all emergency equipment available at the facility including fire extinguishing systems, alarm systems, spill control equipment, communications equipment, and decontamination equipment, the location and physical description or each item on the list and a brief outline of its capabilities; and,

5. An evacuation plan for all areas of the facility, particularly those pertaining to the treatment, storage, and disposal areas of the facility. The plan must describe signals, evacuation routes and alternate routes.

Copies of the contingency plan must be kept at the facility and be submitted to the local authorities. Amendments and updates can be submitted at any time to maintain current, up-to-date information. Updates must be submitted to all recipients of the original contingency plan. Commonly, updates are submitted in the form of substitution pages containing the corrected information.


Education and training ensure that proper procedures for handling hazardous waste or responses to emergency situations are known by all personnel. The Program recommends that all facilities that generate hazardous waste have some form of employee training, and that this training be documented.

Ideas for training include brief safety meetings, video tapes and outside contractor-supplied training. However, you can makeup fun things, such as crossword puzzles or word searches using safety terms to be used as a form of training. Records should include the type and description of the training, the date the training was held, and which employees attended.

Training issues are related to other regulatory agencies other than the Department of Health. The Occupational Safety and Health Administration (OSHA) also has training requirements. A program may be developed which addresses all of the agencies training objectives.

A. CESQG Requirements.

There are no training requirements for CESQGs. It is recommended that personnel receive proper guidance on hazardous waste handling procedures and emergency procedures.
B. SQG Requirements.

Training for SQGs consists of familiarizing employees with proper hazardous waste handling and emergency procedures. There are no formal training record requirements.

C. LQG Requirements.

LQGs are subject to a formal personnel training program. Requirements for the programs are:

1. Classroom or on-the-job training provided the training is site-specific and teaches facility personnel proper hazardous waste handling procedures including contingency plan implementation and emergency response procedures.

2. Must be directed by a person trained in hazardous waste management procedures.

3. New personnel must complete initial training within six months of employment. Employees may not work unsupervised until completion of this training.

4. All personnel shall have an annual training review.

5. Documents and records must be maintained that contain:
   - Job title and description for each position related to hazardous waste management, including name of employee;
   - Written documentation describing the type and amount of introductory and continuing training for each person filling a job position; and,
   - Training records on current personnel must be kept until facility closure. Former employee records must be kept for a minimum of three years after the employee leaves employment with the facility.

D. HAZWOPER Training.

The Department of Labor under the Occupational Safety and Health Administration (OSHA) enacted training requirements for employees involved with certain hazardous waste operations. Persons requiring this training include those involved in: cleanup at uncontrolled waste dump sites; working at permitted hazardous waste TSDFs; and designated for responding to emergencies involving hazardous materials. The requirements also apply to firefighters, police officers, ambulance crews, and hazardous materials personnel who respond to hazardous waste spills.

The HAZWOPER training required by OSHA is different than the training required for hazardous waste management outlined above. For more information, contact OSHA at (701) 250-4521.

STEP 9. Reporting Requirements.

A. Biennial Reports.

The Program sends all SQGs and LQGs biennial hazardous waste reporting forms on or about January 1 of every other calendar year. The SQGs and LQGs are required to complete the biennial hazardous waste report and return the completed report to the Program by March 1 of every other calendar year.

The biennial report records information on hazardous waste generation, transportation and disposal for the previous calendar year only. This means that generators do not need to track two years worth of data for reporting purposes.

CESQGs are not required to file biennial reports. However, the Program periodically sends a hazardous waste reporting form to CESQGs in order to maintain correct information in our database.
B. Intent to Import or Export.

The Program requires that facilities that intend to import from or export to another country notify the Program. The Program requires that the notification include the date of shipment, quantity shipped/received, frequency of shipment, and descriptions of the waste material, how it is to be treated, stored, and/or disposed, and how it is to be transported.

If you plan to or are importing or exporting hazardous wastes into the United States, you must contact the Program for further detailed information on reporting requirements.

C. One-Time Disposal.

On occasion, a company may need to dispose of hazardous wastes that are not generated on a regular basis. Examples include cleaning out a laboratory or a warehouse, products no longer fit for use, expired products, etc. If you generate waste as a one-time disposal, you may be required to notify the Program and obtain a State/EPA ID number (See Step 2).

D. Right-to-Know, SARA Title III, and EPCRA Reporting.

Communities and employees have the right to know about the amounts, location, and potential effects of hazardous chemicals being used or stored in designated quantities. These right to know laws are also known as SARA Title III and Emergency Planning and Community Right-to-know Act (EPCRA). Facilities are required to submit Material Safety Data Sheets (MSDS), on OSHA “hazardous” chemicals, to the North Dakota Department of Emergency Services (NDDES), Division of Homeland Security and the Local Emergency Planning Committees (LEPCs).

An annual report is required to be submitted to the State Emergency Response Commission (SERC), LEPCs, and fire departments. This report is to include the names of chemicals, their quantities, and associated physical and health hazards. This report is due every March 1 of each year for the preceding calendar year. Employers are required to make MSDS on hazardous materials used by the company available to their employees. Employees must be trained in the proper handling of hazardous materials. MSDS must be kept for thirty years. For further information concerning Right to Know, contact OSHA or the NDDES.

**STEP 10. Records.**

Tracking of hazardous wastes is done using manifests. Biennial reporting of hazardous waste generated is completed using these manifests. To facilitate ease in reporting quantities generated, proper record keeping practices should be followed by generators. In all cases, the periods for record retention are automatically extended during the course of any unresolved enforcement action regarding the regulated activity or at the request of the Program.

A. CESQG Requirements.

There are very limited record keeping requirements for CESQGs. It is recommended that if hazardous waste shipments are manifested off-site, and land disposal restriction forms are completed, that these documents be retained for the same time frames as listed below. Contractual agreements for the recycling of hazardous wastes should be maintained on-site.
B. SQG Requirements.

Records required for SQGs include:

1. Signed manifests from the designated facility for three years from the date of shipment.

2. Land disposal restriction notices for at least three years from date of shipment. If you have a contractual agreement, you will need to keep the LDR forms and the agreement for at least three years after termination or expiration of the agreement.

3. Copies of biennial reports and exception reports for the last three years.

4. Records of waste analysis for at least three years from the date the waste was shipped to an off-site TSDF.

5. Contractual agreements for the recycling of hazardous wastes must be maintained on-site for three years after termination or expiration of the agreement.

C. LQG Requirements.

LQGs must follow the records requirements for SQGs, and the following:

1. Training records for current employees handling hazardous waste must be kept until closure of the facility. For employees that are no longer employed, training records must be kept for at least three years after their employment has ceased.

2. Manifest discrepancy reports, to include unmanifested waste reports.

3. Documentation from updating and revising the contingency plan.

LQGs that are Treatment, Storage and Disposal facility will also need to keep the following records:

1. Plans and designs of all buildings and facilities used to treat, store, or dispose hazardous waste.

2. Operating records, to include all provisions of Section 33-24-05-40 NDAC.
Section Two: Selected Topics

**Topic 1: Sewering Wastes.**

Certain wastes may be managed by sewering. Acids and bases that have been neutralized and diluted may be discharged to a publicly owned treatment works (POTW) with permission. Some wastes may be discharged to lagoon systems with permission from the treatment works. At no time should wastes be sewered to either septic systems or storm drains.

You should always notify the local POTW prior to sewering any chemicals. All treatment works have pre-treatment influent requirements that they must comply with. For more information, contact your local POTW or the Division of Municipal Facilities.

**Topic 2: Small Quantity Inventory.**

Small quantity inventory disposal occurs when school laboratories or other laboratory facilities clean out laboratory chemicals and remove them from inventory. Some of the chemicals are relatively nonhazardous, and may be landfilled, sewered, or diluted, neutralized and sewered.

The Program requests that you send a letter listing all obsolete stock and quantities that require disposal. The Program will review the list of chemicals and determine which chemicals can be landfilled, sewered, or diluted, neutralized, and sewered. Chemicals which may be diluted and sewered may cause problems with the POTW (see Topic 1). Some chemicals may not be appropriate for these treatment techniques. These chemicals will require handling as hazardous wastes.

**Topic 3: Used Oil, Filters & Antifreeze.**

A. Used Oil

Used oil is defined as any oil that has been refined from crude oil or any synthetic oil, which has been used, and as a result of such use are contaminated by physical or chemical impurities. This definition includes vehicle crankcase, lubricating, hydraulic, some cutting, and many other oils. **Used oil is exempt from hazardous waste regulation if it: 1) does not exhibit the characteristic of ignitability, and/or 2) does not contain a listed hazardous waste, or 3) is recycled.**

The used oil rules apply to all generators equally. This means there are no different rules for conditionally exempt, small or large quantity generators to follow.

Containers or tanks used to store used oil must be clearly labeled with the words “used oil.” This includes fill pipes for underground storage tanks. The containers and aboveground storage tanks must be in good condition with no severe rusting, apparent structural defects or deterioration and not leaking:

Burning of used oil for energy recovery is an approved management method. Used oil-fired heaters must be designed to burn used oil as a fuel, have a heating capacity of 500,000 Btu per hour or less, be vented to the outside atmosphere and burners may burn only used oil they generate themselves or accept from household do-it-yourselfers. There is no limit on the number of used oil-fired heaters a facility may use, however storage of used oil as a fuel may be regulated by other programs.
Underground storage tanks containing used oil for heating purposes on the premises where stored are not regulated. If you have any questions regarding tanks that store used oil contact the Underground Storage Tank Program.

It is illegal to dispose of used oil in solid waste landfills, on the ground, and in surface waters. Road oiling for dust suppression is also illegal. Some environmentally safe management methods for used oil include recycling, re-refining, and burning for energy recovery. The Department encourages recycling used oil whenever possible.

B. Used Oil Filters

Used oil filters are not generally considered a hazardous waste. However, the used oil they contain will eventually end up in the leachate generated in the final disposal site, normally a landfill.

Used oil filters must be hot-drained (temperature above 60°F) of all free flowing oil for twelve hours before being considered drained. The Program recommends the following hot-draining methods: punctured and hot-drained, dismantling and hot-drained, or crushed and hot-drained. Used oil filters that have been hot-drained may be recycled as scrap metal or disposed in a permitted municipal waste or industrial waste landfill.

C. Antifreeze

Ethylene glycol or propylene glycol (the main ingredients in antifreeze) are sweet tasting and can be toxic to animals and children in small amounts. The Department recommends that used antifreeze be recycled.

Waste antifreeze or used antifreeze may be disposed by sewering to a POTW. However, you must contact the POTW for approval prior to disposal. At no time is antifreeze to be discharged to septic systems, storm sewers, streams, or dumped on the ground. Any spilled antifreeze should be liberally diluted with large amounts of water.

The Program has developed lists of used oil jobbers and antifreeze recyclers and are available on our web site. The Program does not endorse any jobber or recycler, but provides the lists as a service to the regulated community.

**Topic 4: Used Lead-Acid Batteries.**

It is illegal to dispose of used lead-acid batteries in municipal waste landfills or in the municipal waste stream. Lead-acid batteries must be accepted by vendors of new batteries as trade-ins. Storage requirements for lead-acid batteries include a leakproof structure and that the batteries be elevated above the floor to detect leakage. If you plan to store lead-acid batteries for reclamation or operate a reclamation facility, contact the Program for further requirements.

Under the Universal Waste rules (See Topic 6), any battery may be managed in accordance with the universal waste regulations. This includes, but is not limited to, sealed cell lead-acid batteries, nickel-cadmium batteries, mercury batteries, and lithium batteries.

**Topic 5: Pesticides.**

Farmers using pesticides are exempt from most hazardous waste provisions. Pesticide wastes range from rinsate and empty containers to unused or unusable mixtures to pesticide contaminated soils.

Here are some guidelines for disposing and handling of pesticides:

1. Triple rinse or pressure rinse pesticide containers. Use rinsate for the required dilution of concentrated pesticides.
2. Use only the amount of pesticide required for your needs, and apply the pesticide in accordance with the label directions.

3. Purchase only the amount of pesticide required to accomplish the job.

4. Store pesticides away from food or feed and in a manner that protects humans, animals, and the environment. All pesticides must be kept in their original containers.

Some pesticides, when disposed, are considered a hazardous waste. Pesticides that were commonly used only a few years ago are now considered hazardous wastes when disposed, such as Dinoseb, Chlordane, and Toxaphene. Some current pesticides are hazardous waste when disposed, such as 2,4-D.

If you have any questions about old pesticides or pesticide collection programs, contact your local Ag Extension Office, the North Dakota Department of Agriculture Pesticide Director, or the Program. Article 4-35 NDCC, the Pesticide Act, is available from the North Dakota Department of Agriculture.

The Department of Agriculture has operated a program named Project Safe Send. Project Safe Send collects and then subsequently manages the collected pesticides in accordance with applicable regulations. The program is paid for by pesticide registration fees, and is offered at no cost to the participants. For more information, contact your local Ag Extension office or the Department of Agriculture.

**Topic 6: Universal Wastes and the Universal Waste Rule.**

The universal waste rule is designed to reduce the amount of hazardous waste items in the municipal solid waste stream (MSW), encourage recycling and proper disposal of certain common hazardous wastes and reduce the regulatory burden on businesses that generate these wastes. This protects the environment while encouraging effective and efficient waste management.

In North Dakota, the universal wastes include:

**Batteries:** such as nickel-cadmium, lithium- or mercury-containing batteries, which are found in many common items in business and home settings. Lead-acid batteries, such as automotive batteries, may be covered by the universal waste rule.

**Pesticides:** such as those pesticides which have been recalled or banned from use, obsolete pesticides, damaged pesticides and those pesticides which are no longer needed.

**Mercury-containing devices:** which include, but are not limited to, thermostats, switches, and other items in which mercury is contained in a capsule or other container and the mercury is used to transmit pressure, temperature or electricity. Mercury spill kits are not covered by the universal waste rule.

**Lamps:** which include, but are not limited to, fluorescent tubes, high intensity discharge lamps, neon, mercury vapor, high pressure sodium, and metal halide lamps.

Universal waste handlers are people who generate or produce universal waste as well as people who receive universal waste from other generators or handlers and consolidate it before sending it to another handler, recycler, or treatment storage and disposal facility. Handlers accumulate universal waste but do not treat, recycle, or dispose of the waste. The universal waste regulations include requirements for two groups of handlers based on the amount of universal waste accumulated on site at any one time:

**Small Quantity Handlers of Universal Waste** (accumulates less than 5,000 kilograms at any time) are not required to notify the Program of their universal waste management activities. They are not required to keep records of their universal waste shipments, however the Program encourages all handlers to keep records of their shipments.
Large Quantity Handlers of Universal Waste (accumulates a total of 5,000 kilograms at any time) are required to notify the Program of their universal waste management activities and keep records of those activities for a period of three years. Records which meet the requirements need to show the originator of the waste, the type and quantity of waste, the transporter and the destination facility. The rule does not require any specific forms which need to be used as long as this information is covered. Hazardous waste generators do not need to re-notify for universal waste management activities.

Handlers of universal waste must label or mark the universal waste as specified below.

1. Universal waste batteries (for example, each battery), or a container in which the batteries are contained, must be labeled or marked clearly with any one of the following phrases: "Universal Waste - Battery(is)", or "Waste Battery(is)", or "Used Battery(is)";

2. A container (or multiple container package unit), tank, or transport vehicle or vessel in which recalled universal waste pesticides are contained must be labeled or marked clearly with:
   a. The label that was on or accompanied the product as sold or distributed; and
   b. The words "Universal Waste - Pesticide(s)" or "Waste - Pesticide(s)";

3. A container, tank, or transport vehicle or vessel in which unused pesticide products are contained must be labeled or marked clearly with:
   a. The following:
      (1) The label that was on the product when purchased, if still legible;
      (2) If using the labels described in paragraph 1 is not feasible, the appropriate label as required under department of transportation regulation 49 CFR part 172; or
   (3) If using the labels described in paragraphs 1 and 2 is not feasible, another label prescribed or designated by the waste pesticide collection program administered or recognized by the state; and
   b. The words "Universal Waste - Pesticide(s)" or "Waste - Pesticide(s)".

4. Universal waste mercury containing devices (for example, each mercury containing device) or a container in which mercury containing devices are contained must be labeled or marked clearly with any one of the following phrases: "Universal Waste - Mercury Containing Device(is)", or "Waste Mercury Containing Device(is)", or "Used Mercury Containing Device(is)".

5. Each lamp or a container or package in which such lamps are contained must be labeled or marked clearly with one of the following phrases: “Universal Waste - Lamp(is)”, or “Waste Lamp(is)”, or “Used Lamp(is)”. Handlers of universal waste may accumulate universal waste for no longer than one year from the date the universal waste is generated or received from another handler. Handlers must be able to demonstrate the length of time that the universal waste has been accumulated.

Both types of universal waste handlers need to have some type of employee training to describe the proper waste handling and emergency procedures appropriate for the type or types of universal waste handled at the facility, and relative to their responsibilities during normal facility operations and emergencies.

Conditionally exempt small quantity generators may opt to manage their wastes under either the universal waste rule or continue to manage their wastes under the conditional exemption found in
Section 33-24-02-05 NDAC.

**Topic 7: Polychlorinated Biphenyls.**

Polychlorinated biphenyls (PCBs) are manmade chemicals. PCBs were primarily used as a fire retardant in the cooling liquids of electrical transformers and capacitors. PCBs have been banned from manufacture since 1979 because of careless use or disposal of PCBs causing damage to human health and the environment. Once released, PCB's stable nature allows them to persist in the environment for a very long period of time.

Studies done relating to PCB exposure have shown both short- and long-term probable health effects. Concerns are for PCB's toxicity to the liver, adverse reproductive effects, carcinogenic risk upon exposure, and irritation to eyes, nose, throat, and skin. Laboratory data demonstrate that PCBs have caused cancer in animals. PCBs are categorized as a possible human carcinogen.

Concentrations of PCBs over 49 ppm are regulated by the Toxic Substance Control Act (TSCA) under 40 CFR 761 and covers PCB use, record keeping, storage, leak or spill cleanup and disposal. PCBs are a TSCA waste and should not be included in hazardous wastes biennial reports. One pound of “pure” PCBs (10 PCB fluorescent light ballasts) is the reportable quantity when disposing in a landfill under CERCLA. North Dakota's air and water quality requirements regulate concentrations of PCBs under 50 ppm.

**Topic 8: Pollution Prevention & Waste Minimization.**

Pollution prevention is avoiding the creation of hazardous waste. This is a national goal. Pollution prevention, or P2 as it is sometimes called, actually prevents wastes from being generated in the first place. While this is not always possible, it is a good place to start when looking at reducing your potential for waste generation.

While P2 prevents waste generation, waste minimization reduces the amount or toxicity of wastes generated. Waste minimization is important for conserving the environment, but it can also save your company time and money. North Dakota regulations require LQGs to make a concerted effort to reduce the amount of hazardous waste generated.

Pollution prevention and waste minimization go hand in hand, and can be accomplished in many ways. Here are a few examples.

1. **Improved housekeeping.** Sloppy housekeeping can result in more waste being generated than is necessary. To reduce excess waste production:
   - Buy only the amount of materials needed. Buying in quantity saves money initially, but leaves you with excess material which may exceed shelf life and require expensive disposal.
   - Use only as much material as is needed so that little or no excess is generated. This is one time where using more is definitely not better.
   - Use materials in correct proportions so that little or no excess is generated by making defective products or formulations.
   - Ensure that equipment is working and maintained properly. Check for faulty valves or loose pipes and fittings to make sure that products are not lost or unintentionally contaminated.
   - Inventory all wastes produced, clearly mark and label, and properly store these wastes. Inadequate labeling may make it difficult to identify wastes later on. Improper storage can result in accidental contamination of nonhazardous waste.

2. **Material substitution.** Substituting nonhazardous or less hazardous products for
3. Waste concentration. Some hazardous wastes contain large volumes of water making transportation, treatment, and disposal very costly. Commercially available equipment, such as sludge dryers or filter presses, remove the water content of a pretreatment sludge, thus reducing the volume of hazardous waste and disposal costs.

Other nonhazardous wastes, such as used oil filters or empty paint cans, may be crushed for volume reduction. This process saves volume in both the receptacle and the landfill if the crushed filters or paint cans are not able to be recycled. Many scrap metal dealers will accept used oil filters, both crushed and uncushered.

4. Process redesign/modernization. Replacing existing equipment with newer, more efficient equipment for the same operation can significantly reduce waste generation, such as use of high volume low pressure (HVLP) paint spray guns or powder coating equipment.

5. Recycle/reuse. Closer evaluation of the way wastes are handled can sometimes result in opportunities for recycling. For example, waste solvent may be clean enough for another application in a different process. Use of distillation equipment to remove suspended materials in solvents can result in decreased waste volume and the reduced need for virgin solvents.

6. Waste exchange. Unused products, excess inventory, off-specification materials, and hazardous wastes may be exchanged as a management technique. A company utilizing a waste exchange lists a “product” in a waste exchange newsletter, allowing interested companies to contact for an exchange of the waste product. Assistance for waste minimization can be obtained from either the Hazardous Waste or the Solid Waste Program.

Topic 9: Environmental Services.

Environmental services available from the Department of Health include technical assistance, training, regulatory interpretations, and a variety of other services. Technical assistance reviews are on-site visits where the facility management practices are audited for compliance with applicable environmental or occupational safety regulations. Services are available from the following sources:

1. North Dakota Department of Health, Environmental Health Section
   918 East Divide Ave
   Bismarck, ND 58501-1947

2. Aboveground Storage Tanks.
   Registration:
   Petroleum Tank Release Compensation Fund
   1701 S 12th St, Bismarck, ND 58504
   701-328-9600
   Aboveground Fuel Storage Tank
   Pre-Installation plan review:
   Office of Attorney General
   State Fire Marshall’s Office
   PO Box 1054, Bismarck, ND 58502
   701-328-5555
   Other information:
   Department of Health
   Division of Waste Management
   Underground Storage Tank Program
   701-328-5166

3. Air Quality Technical Assistance.

Department of Health
Division of Waste Management
Hazardous Waste Program
701-328-5166

5. Non-regulatory OSHA Technical Assistance.

ND Occupational Safety and Health Consultation Program
Bismarck State College
NDOSH
1815 Schaffer St.
PO Box 5587
Bismarck, ND 58506
1-877- or 701-224-5539
www.bismarckstate.edu/ceti/ndosh

6. Occupational Safety and Health Assistance.

Occupational Safety and Health Administration
Federal Office Building
1640 E. Capitol Ave., Bismarck 58501
701-250-4521

7. Pesticides.

Department of Agriculture
Pesticide Program
600 E. Blvd, 6th Floor, Bismarck 58505
701-328-2231
1-800-242-7535

8. Sewering.

Local Publicly Owned Treatment Works (POTW)

Department of Health
Division of Water Quality


Department of Health
Small Business Assistance Hotline
1-800-755-1625

10. Solid Waste Technical Assistance.

Department of Health
Division of Waste Management
Solid Waste Program
701-328-5166

11. Special Wastes. (Used Oil, Medical Wastes, etc.)

Department of Health
Division of Waste Management
Hazardous Waste Program
701-328-5166

12. Spills.

Department of Emergency Services
Division of State Radio Communications
PO Box 5511, Bismarck, ND 58506
Non-emergency 8-5 Monday-Friday
Instate and Outstate: 800-773-3259 or 701-328-8100
Emergency: 24 hours
Instate: 800-472-2121
Outstate: 701-328-9921

13. Toxic Release SARA Title III, "Community Right-to-Know."

Department of Health
Division of Water Quality
701-328-5210

National Response Center
1-800-424-8802

www.nd.gov/des/planning/hazchem/reporting
701-328-8100

14. Transportation Requirements.

ND Department of Transportation
608 E. Blvd., Bismarck, ND 58505
701-328-2500

Federal Motor Carrier Safety Management
1471 Interstate Loop, Bismarck 58503
701-250-4346

15. Underground Storage Tanks.

Department of Health
Division of Waste Management
Underground Storage Tank Program
701-328-5166


Department of Health
Division of Water Quality
701-328-5210

17. Environmental Health Section Fax Line.

701-328-5200
On your fax, identify the recipient and division.

18. Environmental Health Section East.

2301 8th Ave. North, Fargo, ND 58102
701-476-4121
701-241-8109 (fax)

**Topic 10: Information Services.**

This is the sixteenth edition of this document. Comments on the content and readability of the document are encouraged. Please send comments and inquiries to the Hazardous Waste Program. The Department has developed an internet home page which generators may find useful information regarding many aspects of hazardous waste management. The page also links to other environmental home pages, such as EPA's home page.

The link to the Division of Waste Management Home Page is www.ndhealth.gov/wm. Access may also be gained from www.nd.gov.

You may link to the Division's three programs: Hazardous Waste, Solid Waste, and Underground Storage Tanks. Or you may link to the Department's Home Page and access other Divisions within the Environmental Health Section, Administrative Services Section, Health Resources Section, Emergency Preparedness and Response Section, Community Health Section, and the Preventive Health Section.

The Department maintains policy letters, management outlines, lists, and other documents which are for public distribution. These documents are available on the Department's webpage. The Department updates these materials as often as necessary. If you have a document that is a few months or years old, contact the Department to see if the document has been updated. These items are available upon request in small quantities. Requests can be by letter, fax, telephone call, or e-mail to the Department, requesting the documents and the desired quantity.

If you have a need for additional information that is not found in this guidebook or on the internet home page, please call the Program at (701) 328-5166 to request the specific information you require.
<table>
<thead>
<tr>
<th>WEEKLY INSPECTION</th>
<th>CONTAINER INFORMATION</th>
<th>INVENTORY</th>
<th>COMMENTS</th>
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ACRONYMS & EQUIVALENTS CHART

CAA  Clean Air Act  
CERCLA  Comprehensive Environmental Response, Compensation, and Liability Act  
CESQG  Conditionally Exempt Small Quantity Generator  
CFC  Chlorofluorocarbon  
CWA  Clean Water Act  
DOT  Department of Transportation  
EPA  Environmental Protection Agency  
EPCRA  Emergency Planning and Community Right-to-know Act  
HAZWOPER  Hazardous Waste Operator training  
HHW  Household Hazardous Waste  
HSWA  Hazardous and Solid Waste Amendments  
LDR  Land Disposal Restriction  
LEPC  Local Emergency Planning Committee  
LQG  Large Quantity Generator  
MSDS  Material Safety Data Sheet  
MSHA  Mine Safety and Health Administration  
NDAC  North Dakota Administrative Code  
NDCC  North Dakota Century Code  
NDDEH  North Dakota Department of Health  
NDPDES  North Dakota Pollution Discharge Elimination System  
OSHA  Occupational Safety and Health Administration  
PCB  Polychlorinated Biphenyl  
PPB  Parts Per Billion  
PPM  Parts Per Million  
POTW  Publicly Owned Treatment Works  
RCRA  Resource Conservation and Recovery Act  
SARA  Superfund Amendments and Reauthorization Act  
SDWA  Safe Drinking Water Act  
SWDA  Solid Waste Disposal Act  
SERC  State Emergency Response Commission  
SQG  Small Quantity Generator  
TCLP  Toxicity Characteristic Leaching Procedure  
TSCA  Toxic Substance Control Act  
TSDF  Treatment, Storage, or Disposal Facility  
TSDR  Treatment, Storage, Disposal or Recycling facility

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<tr>
<th>Measurement Comparisons</th>
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Fill in and post this information near telephones. This information is required by Section 33-24-03-12.4 NDAC.

### EMERGENCY RESPONSE INFORMATION

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<tr>
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<td>(Home)_______________________</td>
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<th>Fire Alarm Location:</th>
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<th>Fire Extinguisher Location(s):</th>
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| Fire Department: | |
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<th>Police Department:</th>
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Fill in and post this information near telephones. This information is required by Section 33-24-03-12.4 NDAC. Make sure all employees are familiar with the information and how to implement it in an emergency.

### EMERGENCY RESPONSE PROCEDURES

**Spills**: Stop flow and contain the spill to the extent possible, as soon as possible. Cleanup spill with the appropriate material and dispose as necessary.

**Fire**: Alert fire department, and if safe, attempt to control the fire with fire extinguisher.

**Fire, explosion or other release which could threaten human health outside the facility**: or if spill has reached surface water: Call NDDES at (800) 472-2121 with the following information.

- **Company Name**: ____________________________
- **Address**: ______________________________________
  ______________________________________
- **Site Identification Number**: __________________
- **Date of incident**: __________________
- **Time of incident**: __________________
- **Type of incident (spill, fire, etc)**: __________________
  **Quantity of hazardous waste involved**: __________________
  **Extent of injuries, if any**: __________________
  **Estimated quantity and disposition of recovered materials, if any**: __________________